As a below named inventor, I hereby declare that:

[X]	original
[]	divisional
[]	continuation
ΓĪ	continuation-in-part

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ATOMIC LAYER DEPOSITION APPARATUS

SPECIFICATION IDENTIFICATION

The specification of which:

[X]	filed herewith;				
[]	was filed on, un	der Serial No,	executed	on even	date
	herewith; or				
[]	Express Mail No.	(Serial No. not yet known)			
	and was amended on	(if applicable)			
[]	was described and claimed in PCT Ir	nternational Application No.		file	ed on
	and as amended und	er PCT Article 19 on	•		

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[X] In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

before	e that of the applica	tion(s) of which priority is cla	imed.	
	[X] No suc	h applications have been filed	.	
	[] Such a	pplications have been filed as	follows:	
A.	•	CT application(s) filed with tims under 35 U.S.C. §119	in 12 mos. (6 mos. for design	gn) prior to this application, and
	Country/PCT	Application No	Date Filed	Priority Claimed
				[] Yes [] No [] Yes [] No [] Yes [] No
В.	All foreign appl U.S. application	lication(s), if any, filed more	than 12 mos. (6 mos for de	sign) prior to this
	Country: Application No: Filing date:			
C.	U.S. Provisiona	l Application filed within 12	months prior to this applic	cation
		<u>Serial No.</u>	Filing Date	
		PRIORITY CI	LAIM (35 U.S.C. §120)	
PCT i	nternational applicant to matter of each of	ation(s) designating the Unite of the claims of this application	d States of America that is/a tion is not disclosed in that	ny United States application(s) or are listed below and, insofar as the t/those prior application(s) in the

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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			Status		
Serial No.	Filing Date	Patented Pending	Abandoned		

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
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Telephone No. 732-530-9404

Santa Clara, CA 95052

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Full name of sole or first inventor: BARRY L. CHIN Date: 1/23 (0) Inventor's signature: Residence: Saratoga, CA 95070 Post Office Address: Same as above Country of Citizenship: U.S.A. Full name of second inventor: ALFRED W. MAK Inventor's signature: Date: Residence: 32722 Fellows Court Union City, CA 94587 Post Office Address: Same as above Country of Citizenship: U.S.A. Full name of third inventor: LAWRENCE CHUNG-LAI LEI Inventor's signature: Date: 1594 Country Club Drive Residence: Milpitas, CA 95035 Post Office Address: Same as above Country of Citizenship: U.S.A.

Post Office Address:

Full name of fourth inventor: MING XI

Inventor's signature: Date: Residence: 151 Churchill Avenue Palo Alto, CA 94306 Post Office Address: Same as above Country of Citizenship: P.R. of China Full name of fifth inventor: HUA CHUNG Inventor's signature: Date:__ 4645 Piper Drive Residence: San Jose, CA 95129 Post Office Address: Same as above Country of Citizenship: Taiwan Full name of sixth inventor: KEN KAUNG LAI Inventor's signature: Date: Residence: 1354 Terra Alta Drive Milpitas, CA 95035 Post Office Address: Same as above Country of Citizenship: Taiwan Full name of seventh inventor: JEONG SOO BYUN Inventor's signature: Date: Residence: 20975 Valley Green Drive #257

Cupertino, CA 95014

Same as above

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	[X]	No such a	pplications have been f	īled.		
	[]	Such appl	ications have been filed	d as follows:		
A.			application(s) filed vs under 35 U.S.C. §11		6 mos. for design) prior to this application, and
	Count	try/PCT	Application No	<u>Date</u>	Filed	Priority Claimed
						[] Yes [] No [] Yes [] No [] Yes [] No
В.		eign applica plication	ition(s), if any, filed m	ore than 12 mo	s. (6 mos for desig	gn) prior to this
	Country Applica Filing o	ition No:				
C.	U.S. Pr	ovisional A	pplication filed within	n 12 months pri	or to this applicat	tion
			Serial No.		Filing Date	
			PRIORITY	CLAIM (35 U	S.C. §120)	
PCT in subject manner disclos substan applica	ternation matter of provide e inform tial likel tion to is internation	al application of each of the description of the description that is indeed that sue as a patternal filing description.	on(s) designating the U he claims of this app st paragraph of Title s material to the exan a reasonable Examine ent) which occurred to ate of this application.	nited States of A lication is not of 35, United State nination of this or would conside between the filin	america that is/are isclosed in that/thes Code, Section is application (name or it important in	United States application(s) of a listed below and, insofar as the hose prior application(s) in the 112, I acknowledge the duty to ely, information where there is deciding whether to allow the r application(s) and the national
	[X] []		pplications have been fication have been filed.			
					Status	
	Serial N	<u> Vo</u> . <u>I</u>	<u> iling Date</u>	Patented Pen	<u>ding Aba</u>	<u>indoned</u>

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PRIORITY CLAIM (35 U.S.C. §119)

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	[X] No such applications have been filed.					
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A.		n/PCT application(s) fi claims under 35 U.S.C		design) prior to this application, and		
	Country/PC	CT Application No	Date Filed	Priority Claimed		
				[] Yes [] No [] Yes [] No [] Yes [] No		
В.	All foreign a U.S. applica		ed more than 12 mos. (6 mos f	or design) prior to this		
	Country: Application I Filing date:	No:				
C.	U.S. Provisi	onal Application filed w	rithin 12 months prior to this a	pplication		
		Serial No.	Filing	<u>Date</u>		
				- <u></u> -		
		PRIO	RITY CLAIM (35 U.S.C. §120))		
PCT subj man disc subs appl	international applied matter of each iner provided by lose information stantial likelihood lication to issue a	olication(s) designating to the of the claims of this the first paragraph of T that is material to the I that a reasonable Example.	he United States of America the application is not disclosed in litle 35, United States Code, S examination of this application miner would consider it impor- red between the filing date of t	of any United States application(s) or at is/are listed below and, insofar as the in that/those prior application(s) in the ection 112, I acknowledge the duty to in (namely, information where there is trant in deciding whether to allow the the prior application(s) and the national		
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			S	tatus		
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Full name of fourth inventor: MING XI

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POWER OF ATTORNEY

Patented Pending

Status

Abandoned

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	Country	/PCT	Application No	<u>D</u>	ate Filed	Priority Cl	aimed
						[] Yes [[] Yes [[] Yes [[] No
В.	All foreig U.S. appli		tion(s), if any, filed	l more than 12 i	nos. (6 mos for	design) prior to thi	is
	Country: Application Filing date						
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			PRIOR	TY CLAIM (35	U.S.C. §120)		
PCT int subject manner disclose substan applicat	ternational amatter of provided be informaticated likelihotion to issue international [X]	application each of the oy the first on that is each of that are as a pate al filing da No such ap	n(s) designating the claims of this a set paragraph of Tit material to the extrement) which occurrente of this applications have been	e United States of application is not application is not all 35, United Stamination of the iner would consider the first between the first properties.	of America that t disclosed in cates Code, Security application sider it importa	of any United States is/are listed below a that/those prior appution 112, I acknow (namely, information tin deciding whe e prior application(s)	and, insofar as the oblication(s) in the ledge the duty to on where there is ther to allow the
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DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or fir	st inventor: BARRY L. CHIN	
Inventor's signature: Residence:	13174 Cumberland Drive Saratoga, CA 95070	Date:
Post Office Address:	Same as above	Country of Citizenship: U.S.A
Full name of second in	ventor: ALFRED W. MAK	
Inventor's signature: Residence:	32722 Fellows Court Union City, CA 94587	Date:
Post Office Address:	Same as above	Country of Citizenship: U.S.A
Full name of third inve	ntor: LAWRENCE CHUNG-LAI LEI	
Inventor's signature: Residence:	1594 Country Club Drive Milpitas, CA 95035	Date:
Post Office Address:	Same as above	Country of Citizenship: U.S.A.

Post Office Address:

Inventor's signature: Date: Residence: 151 Churchill Avenue Palo Alto, CA 94306 Post Office Address: Same as above Country of Citizenship: P.R. of China Full name of fifth inventor: HUA CHUNG a Cly Date: 1/15/0/ Inventor's signature: Residence: 4645 Piper Drive San Jose, CA 95129 Post Office Address: Same as above Country of Citizenship: Taiwan Full name of sixth inventor: KEN KAUNG LAI Inventor's signature: Date: Residence: 1354 Terra Alta Drive Milpitas, CA 95035 Post Office Address: Same as above Country of Citizenship: Taiwan Full name of seventh inventor: JEONG SOO BYUN Inventor's signature: Date: Residence: 20975 Valley Green Drive #257

Cupertino, CA 95014

Same as above

Full name of fourth inventor: MING XI

As a below named inventor, I hereby declare that:

This declaration	is	of the	following	type

[X]	original
[]	divisional
[]	continuation
[]	continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

ATOMIC LAYER DEPOSITION APPARATUS

SPECIFICATION IDENTIFICATION

The specification of which:

[X]	filed herewith;			
[]	was filed on , under Serial No. , execute	d on	even	date
	herewith; or			
[]	Express Mail No (Serial No. not yet known)			
	and was amended on (if applicable)			
[]	was described and claimed in PCT International Application No.		file	d on
	and as amended under PCT Article 19 on			

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[X] In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

[X]

[]

Serial No.

before	that of the	application	(s) of which priority is cla	imed.	
	[X]	No such a	oplications have been filed	l.	
	[]	Such appli	cations have been filed as	follows:	
A.		_	application(s) filed with under 35 U.S.C. §119	in 12 mos. (6 mos. for desi	gn) prior to this application, and
	Countr	ry/PCT	Application No	Date Filed	Priority Claimed
					[] Yes [] No [] Yes [] No [] Yes [] No
В.		ign applica plication	tion(s), if any, filed more	than 12 mos. (6 mos for de	esign) prior to this
	Country Applicat Filing da	tion No:			
C.	U.S. Pro	ovisional A	pplication filed within 12	months prior to this appli	cation
			Serial No.	Filing Date	
			PRIORITY C	LAIM (35 U.S.C. §120)	
PCT in subject manner disclose substant applica	ternationa matter of provided e informa tial likeli tion to iss	Il application of the cach of the least of the first tion that is shood that a cache as a pate	n(s) designating the Unite the claims of this applica at paragraph of Title 35, material to the examinate reasonable Examiner w	ed States of America that is/ tion is not disclosed in the United States Code, Section tion of this application (na- rould consider it important	any United States application(s) of are listed below and, insofar as the at/those prior application(s) in the on 112, I acknowledge the duty to amely, information where there is in deciding whether to allow the rior application(s) and the national

POWER OF ATTORNEY

No such applications have been filed Such application have been filed, as follows:

Filing Date

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Patented Pending

Status

Abandoned

Donald Verplancken	Registration No. 33,217
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35.412

Michael B. Einschlag Registration No. 29,301 Robert W. Mulcahy Registration No. 25,436 Walter Benjamin Glenn Registration No. 44,713 Joseph Bach Registration No. 37,771 B. Todd Patterson Registration No. 37,906 Raymond R. Moser, Jr. Registration No. 34,682 Keith M. Tackett Registration No. 32,008 Joseph Pagnotta Registration No. 39,322

Send correspondence to:

Direct telephone calls to:

Patent Counsel

Patricia A. Verlangieri

APPLIED MATERIALS, INC.

THOMASON, MOSER & PATTERSON, L.L.P.

P. O. Box 450-A

Telephone No. 732-530-9404

Santa Clara, CA 95052

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Post Office Address:

Same as above

Full name of fourth inventor: MING XI

Inventor's signature: Date: Residence: 151 Churchill Avenue Palo Alto, CA 94306 Post Office Address: Same as above Country of Citizenship: P.R. of China Full name of fifth inventor: HUA CHUNG Inventor's signature: Date: 4645 Piper Drive Residence: San Jose, CA 95129 Post Office Address: Same as above Country of Citizenship: Taiwan Full name of sixth inventor: KEN KAUNG LAI 7/23/200 Inventor's signature: Residence: 1354 Terra Alta Drive Milpitas, CA 95035 Post Office Address: Same as above Country of Citizenship: Taiwan Full name of seventh inventor: JEONG SOO BYUN Inventor's signature: Date: Residence: 20975 Valley Green Drive #257 Cupertino, CA 95014

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[X]	filed herewith;			
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PRIORITY CLAIM (35 U.S.C. §119)

Serial No.

Filing Date

before	that of th	e application	n(s) of which priority is clai	med.		
	[X] No such applications have been filed.					
	[]	Such appl	ications have been filed as t	follows:		
A.		r foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and priority claims under 35 U.S.C. §119				
	<u>Coun</u>	try/PCT	Application No	Date Filed	<u>Priori</u>	ty Claimed
					[] Y	Yes [] No Yes [] No Yes [] No
В.		eign applica	ation(s), if any, filed more	than 12 mos. (6 mos for	design) prior (to this
	Country Applies Filing (ation No:				
C.	U.S. P	rovisional A	application filed within 12	months prior to this ap	plication	
			Serial No.	Filing Da	ate_	
			PRIORITY CL	AIM (35 U.S.C. §120)		
I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.						
	[X] []		pplications have been filed ication have been filed, as f	ollows:		

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Same as above

Full name of fourth inventor: MING XI

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